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APPLICATION	NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,175	5	01/21/2004	Marcus Heemann	Н 5129	4782
423	7590	03/22/2006		EXAMINER	
	EL CORPO		MULLIS, JEFFREY C		
	NAISSAN		ART UNIT	PAPER NUMBER	
GULPH	GULPH MILLS, PA 19406			1711	
				DATE MAILED: 03/22/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		T A U-ation Ala	A 1			
		Application No.	Applicant(s)			
055		10/762,175	HEEMANN ET AL.			
	Office Action Summary	Examiner	Art Unit			
· · · · · · · · · · · · · · · · · · ·		Jeffrey C. Mullis	1711			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 03 Ja	anuary 2006.				
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b) This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-19</u> is/are pending in the application. 4a) Of the above claim(s) <u>2 and 12-15</u> is/are wi Claim(s) is/are allowed. Claim(s) <u>1,3-11 and 16-19</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	thdrawn from consideration.				
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment	• •					
2) 🔲 Notic 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>1-04</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

Art Unit: 1711

Applicant's election of group I as well as the composition wherein "B" is required and "D" and "E" are not required, wherein "C" is an acrylic acid copolymer "A" is a I-c graft in the reply filed on 1-3-06 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim 2 is withdrawn as being drawn to a non elected species while claims 12-15 are drawn to a non elected invention. Claims 1, 3-11 and 16-19 are therefore under consideration.

Claims 1, 3-11 and 16-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The last three lines of claim 1 are unclear in that the phrase "but not to (i-a) or (i-b)" could be interpreted as applying to the "olefinically unsaturated monomer", (i.e. emphasizing the fact that only the presence of i-c requires the presence of "B") or could be interpreted such that 'B" need be present only when vinyl acetate (i.e. the only member of the i-a and i-b Markush group present in I-c). Furthermore, I-a contains no genus encompassing vinyl acetate or propionate and it therefore unclear why such a negative limitation applies to i-a. Lastly it is not clear how i-c can correspond to i–a or i-b since I-b corresponds to a mixture while no mixture is recited for I-c.

The term "alkyl poly(meth)acrylates" is not art recognized and is therefore unclear.

Page 3

The term "molecular weight" is unclear where unqualified as to the type of molecular weight i.e. weight or number average (as appears in at least claim 1, 8 and 11) etc since these expressions of molecular weight vary.

The genuses encompassed by applicants' components A-E overlap in that many materials are mutually encompassed by A-E. For instance the polymer of "B" can be said to be a resin as in "C" or (in some cases) a plasticizer as in "E". Therefore it is ambiguous as to whether particular composition should be viewed as having components A or B or C or D or E or all of them at once. An acrylic graft could also be viewed as any one or all of components A-C or E. This is especially confusing since different components are present at different levels and irt is therefore unclear whether for instance a composition with 80% polyester falls within the scope of the claims since when viewed as a resin "A" it would while viewed as "B" would not.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

Art Unit: 1711

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-5, 7-11 and 16-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Ray-Chaudhuri et al., US 3,891,584, incorporated by reference by applicants.

It is note that paragraph 32 of applicants published application discloses that applicants elected component "A" are described by '584. Note runs 16, 22 and 27 for a combination of 75 parts of the graft copolymer and 25 parts of resin as in applicants "C".

Claims 1, 3-5, 7-11 and 16-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Appel et al. (US 6,025,320).

Appel discloses that SOKALAN HP22 is a graft copolymer of 6,000 mw PEG and vinyl acetate in applicants amounts (column 3, lines 40-46) and that 60% of SOKALAN HP22 may be combined with a PEGylated alcohol as in applicants component "C" (column 4, lines 23-30).

Claims 1, 3-5, 7-11 and 16-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Gopalkrishnan (US 5,733,856).

Patentees disclose compositions having equal amounts of SOKALN HP22 as in applicants "A" and one or two acrylic polymers (as in applicants "B" and/or "C"), ie each component is present at a level of 50 or 33% based on the total of acrylic polymers and SOKALAN. Note Examples 13-22 as well as column 7, line 51 –column 8, lines 15.

Claims 1, 3-11 and 16-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Brady et al. (US 5,217,798).

Art Unit: 1711

Brady discloses a composition in which two different molecular weight alkylene oxide polymers are grafted with vinyl acetate (with each graft reading on applicants "A", "C" or "D" and combined at a level of 70 parts with 30 parts Gum Rosin as in applicants "C" and/or "D".

Claims 1, 3-5, 7-11 and 16-19 are rejected under 35 U.S.C. 102(b) as being anticipated by over Paul et al. (US 6,410,627)

Patentees disclose a composition having a "polymeric component" (such as a vinyl monomer grafted on to a polyether) at a level of greater than 40% and 10 40% "hydroxyl polymer" such as a polyester (patent claims 3 and 15). Note that the graft copolymer may be 30% PEG grafted onto 70% polyvinyl acetate at column 12, lines 5-10. Note Example 2 for a mixture of 50% of this graft with a resin.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ray-Chaudhuri et al., US 3,891,584 in view of any one of White (US US005578682A) or Shih et al. (US US006734131B2) or Rekers et al. (US US005321105A).

White, Shi and Rekers all disclose the benefit of improved processabilty when using bimodal molecular weight distribution polymers note White at column 1, lines 38-44, Shih at column 3, lines 9-17 and column 4, lines 25-45 and Rekers at the paragraph bridging columns 23 and 24.

Application/Control Number: 10/762,175 Page 6

Art Unit: 1711

The primary reference does not disclose use of bimodal polymer. However, such usage would have been obvious to practitioner having an ordinary skill in the art in order to increase processabilty absent any showing of surprising or unexpected results.

Claims 1, 3-5, 7-11 and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paul, '627, cited above.

Paul does not disclose examples using a combination or polyester and grafted polyether.

Choice of a polyester/grafted polyether from the disclosure of the patent would have been obvious to a practitioner having an ordinary skill in the art at the time of the invention in the expectation of adequate results, absent any showing of surprising or unexpected results.

Any inquiry concerning this communication should be directed to Jeffrey C. Mullis at telephone number 571 272 1075.

Jeffrey C. Mullis J Mullis Art Unit 1711

Jcm

3-15-06

